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UTILITY PATENT APPLICATION **TRANSMITTAL**

perior to a contestion of the	
Attorney Docket No.	60,246-258/10781
First Inventor	Tobias Sienel
Title	Freeze Protection For Heat Pump
Express Mail Label No.	EV221422999US

(Only lot I	tew nonprovisiona	applications under 57 CFR 1.55(b))	Express Ma	ali Label Ivo.					
See MPEP o	—	ION ELEMENTS ming utility patent application contents.	ADDRES	SS TO:	Mail Stop P Commissio P.O. Box 14 Alexandria	oner for Pat 450	tents		
2. Applica See 37 Specifi (preferr - Descr - Cross - Stater - Referr or a cc - Backg - Brief 5 - Brief 1	t an original and a ant claims small 7 CFR 1.27. ication ed arrangement se iptive title of the in 8 Reference to Rela	[Total Pages 10] et forth below) vention ated Applications ed sponsored R & D listing, a table, isting appendix ition vention	8. Nucleo (if appl a. b. i	i. CD- ii. Pap Statemen	ram (Appen mino Acid S essary) Readable f ion Sequen ROM or CD er	ndix) Sequence Form (CR nce Listing D-R (2 cop	Submission F) g on: pies); or f above copies	22141 U.S. PTO 10/725732	
- Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets		ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Certificate.of. Express. Mail							
specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.:									
5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS									
			DENCE AD						
Custom	ner Number:	026096		OR L	Corres	pondence	e address belo		
Name John E. Carlson									
Carlson Gaskey & Olds, P.C.									
City	400 West Maple Road, Suite 350 Silver Birmingham Silver Birm			State MI			Zip Code 48009		
Country	Dimingram			elephone 248-988-8360				8-8363	
Name (Print/Type) John E. Carlson / Registration No. (Attorney/Agent) 37,794									
Signature Signature						Date	12/02/200	3	

This collection of information is required by 37 CFR 1.33(t). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (01-03)
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FEE	TRANSMITTAL	
1	or FY 2003	

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

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1331	~ .	•	·UU

Complet if Known			
Application Number			
Filing Date	Herewith		
First Named Inventor	Tobias Sienel		
Examiner Name			
Art Unit			
Attorney Docket No.	60,246-258/10781		

METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)				
Check Credit card Money Other None		3. ADDITIONAL FEES					
Order Order		Large	Large Entity Small Entity				
Denosit				Fee Fee Code (\$)		Fee Description	Fee Paid
Account Number	03-0835	1051	130	2051		Surcharge - late filing fee or oath	
Deposit	Carrier	1052	50	2052	25	Surcharge - late provisional filing fee or	
Account Name	Carrier	1053	130	1053	130	cover sheet Non-English specification	
The Commissioner is authorized to: (check all that apply) Chame fee(s) indicated below Credit any overpayments			2,520	1812		For filing a request for ex parte reexamination	
onarge ree	(s) indicated below Credit any overpayments	1804	920*	1804	920*	Requesting publication of SIR prior to	
	 additional fee(s) during the pendency of this application indicated below, except for the filing fee 	4005		1005		Examiner action	
- ·	entified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
	FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC F		1252	410	2252	205	Extension for reply within second month	
Large Entity S	Small Entity	1253	930	2253	465	Extension for reply within third month	
Fee Fee Code (\$)	Fee Fee Paid Fee Paid Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month	
1001 750	2001 375 Utility filing fee 770.00	1255	1,970	2255	985	Extension for reply within fifth month	
1002 330	2002 165 Design filing fee	1401	320	2401	160	Notice of Appeal	
1003 520	2003 260 Plant filing fee	1402	320	2402		Filing a brief in support of an appeal	
1004 750	2004 375 Reissue filing fee	1403	280	2403		Request for oral hearing	
1005 160	2005 80 Provisional filing fee	i .	1,510	1451		Petition to institute a public use proceeding	
	SUBTOTAL (1) (\$) 770.00	1452	110	2452		Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1453	•	2453		Petition to revive - unintentional	
	Fee from Extra Claims below Fee Paid	1501 1502	470	2501 2502		Utility issue fee (or reissue) Design issue fee	
Total Claims	12 -20** = X 18 = 0	1502	630	2503		Plant issue fee	
Independent Claims	3 - 3** = X 84 =0	1460	130	1460	130	Petitions to the Commissioner	
Multiple Depe	ndent =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity		1806	180	1806	180	Submission of Information Disclosure Stmt	
Fee Fee Code (\$)	Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18	2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after final rejection	
1201 84	2201 42 Independent claims in excess of 3	4040	750	0040		(37 CFR 1.129(a))	
1203 280 1204 84	2203 140 Multiple dependent claim, if not paid 2204 42 ** Reissue independent claims	1810	750	2810	3/5	For each additional invention to be examined (37 CFR 1.129(b))	
1204 04	over original patent	1801	750	2801	375	Request for Continued Examination (RCE)	
1205 18	2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
	SUBTOTAL (2) (\$) 0.00		fee (sp				<u> </u>
**or number previously paid, if greater; For Reissuas, see above			*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00				
SUBMITTED BY (Complete (if applicable)							

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Registration No.

(Attorney/Agent)

37,794

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Tobias Sienel

Serial No.:

Unknown

Filed:

Herewith

Title:

Freeze Protection For Heat Pump System

EXPRESS MAIL CERTIFICATE

"Express Mail" Label Number: EV221422999US

Date of Deposit:

December 2, 2003

I hereby certify that the attached documents or fees are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

Lesley Upton

(Typed or printed name of person mailing paper or fee)